

CEMENT JOB REPORT



| | | | | | | | | | | | | | | |
|---|-----------------|---------------------------------------|---|--|----------------------------|---|-----------------------|---|----------------------|---|-------------------|----------------------------------|------------------------------------|-------------|
| CUSTOMER CARRIZO OIL & GAS INC XML | | | DATE 29-SEP-14 | | F.R. # 10011102435 | | | SERV. SUPV. Zachary Fagg | | | | | | |
| LEASE & WELL NAME O'HARE 2-29-11-57 - API 05123400820000 | | | LOCATION 29-11N-57W | | | COUNTY-PARISH-BLOCK Weld Colorado | | | | | | | | |
| DISTRICT Brighton | | | DRILLING CONTRACTOR RIG # Xtreme Coil #19 | | | TYPE OF JOB Surface | | | | | | | | |
| SIZE & TYPE OF PLUGS | | LIST-CSG-HARDWARE | | | MECHANICAL BARRIERS | | MD | TVD | HANGER TYPES | | MD | TVD | | |
| Cement Plug, Rubber, Top 9-5/8 in | | Cement Basket, Slip On, 9-5/8 in | | | | | | | | | | | | |
| | | Centralizer, with Fins, 9-5/8 in | | | | | | | | | | | | |
| | | Float Collar, Ball Valve, 9-5/8 - 8rd | | | | | | | | | | | | |
| | | Float Shoe 9-5/8 - 8rd | | | | | | | | | | | | |
| MATERIALS FURNISHED BY BJ | | | | LAB REPORT NO. | | PHYSICAL SLURRY PROPERTIES | | | | | | | | |
| | | | | | | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT³ | WATER GPS | PUMP TIME HR:MIN | Bbl SLURRY | Bbl MIX WATER | | |
| Fresh Water + 2 lbs Red Dye | | | | | | 0 | 8.34 | 0 | 0 | 00:00 | 15 | | | |
| Type III Cmt + adds | | | | | | 146 | 14.5 | 1.41 | 6.82 | 02:21 | 36.58 | 23.70 | | |
| Premium Lite Cmt + adds | | | | | | 400 | 13 | 1.81 | 9.46 | 05:01 | 129.24 | 90.09 | | |
| Fresh Water | | | | | | 0 | 8.34 | 0 | 0 | 00:00 | 108.23 | | | |
| Available Mix Water <u>500</u> Bbl. | | | | Available Displ. Fluid <u>500</u> Bbl. | | TOTAL | | | | | 289.05 | 113.79 | | |
| HOLE | | | TBG-CSG-D.P. | | | | | | COLLAR DEPTHS | | | | | |
| SIZE | % EXCESS | DEPTH | ID | OD | WGT. | TYPE | MD | TVD | GRADE | SHOE | FLOAT | STAGE | | |
| 12.25 | 100 | 1440 | 8.921 | 9.625 | 36 | CSG | 1440 | 1440 | P-110 | 1471 | 1428 | 1 | | |
| LAST CASING | | | PKR-CMT RET-BR PL-LINER | | | PERF. DEPTH | | TOP CONN | | WELL FLUID | | | | |
| ID | OD | WGT | TYPE | MD | TVD | BRAND & TYPE | | DEPTH | TOP | BTM | SIZE | THREAD | TYPE | WGT. |
| 15. | 16 | 65 | CSG | 70 | 70 | NO PACKER | | | 0 | 0 | 9.625 | 8RND | WATER BASED | 8.5 |
| DISPL. VOLUME | | DISPL. FLUID | | CAL. PSI | CAL. MAX PSI | OP. MAX | MAX TBG PSI | | MAX CSG PSI | | MIX WATER | | | |
| VOLUME | UOM | TYPE | | WGT. | BUMP PLUG | TO REV. | SQ. PSI | RATED | Operator | RATED | Operator | | | |
| 110 | BBLs | Fresh Water | | 8.34 | 900 | 0 | 0 | 0 | 0 | 2816 | 905 | RIG | | |
| Circulation Prior to Job | | | | | | | | | | | | | | |
| Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | | | | Circulation Time: 1 | | | | Circulation Rate: 4 BPM | | | | | | |
| Mud Density In: 8.5 LBS/GAL | | | | Mud Density Out: 8.5 LBS/GAL | | | | PV & YP Mud In: 0 | | PV & YP Mud Out: 0 | | | | |
| Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> | | | | Units: | | | | Solids Present at End of Circulation: | | NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> | | | | |
| Displacement And Mud Removal | | | | | | | | | | | | | | |
| Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/> | | | | Amount Bled Back After Job: 1 BBLs | | | | | | | | | | |
| Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL | | | | Method Used to Verify Returns: VISUAL | | | | | | | | | | |
| Cement Returns at Surface: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | | | Were Returns Planned at Surface: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES | | | | | | | | | | |
| Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROICATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE | | | | | | | | | | | | | | |
| Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES | | | | Quantity: 14 | | | | Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID | | | | | | |
| Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD | | | | | | | | | | | | | | |
| Plugs | | | | | | | | | | | | | | |
| Number of Attempts by BJ: 0 | | | | Competition: 0 | | | | Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Quantity: | | | | | | |
| Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | | | | | | | |
| Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | Top of Plug: 0 FT | | | | Bottom of Plug: 0 FT | | | | | | |
| Squeezes (Update Original Treatment Report for Primary Job) | | | | | | | | | | | | | | |
| BLOCK SQUEEZE <input type="checkbox"/> | | | | SHOE SQUEEZE <input type="checkbox"/> | | | | TOP OF LINER SQUEEZE <input type="checkbox"/> | | | | PLANNED <input type="checkbox"/> | UNPLANNED <input type="checkbox"/> | |
| Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | PSI Applied: 0 | | Fluid Weight: 0 LBS/GAL | | | | |
| Casing Test (Update Original Treatment Report for Primary Job) | | | | | | | | | | | | | | |
| Casing Test Pressure: 1500 PSI | | | | With 8.34 LBS/GAL Mud | | | | Time Held: 00 Hours 15 Minutes | | | | | | |
| EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NONE | | | | | | | | | | | | | | |

CEMENT JOB REPORT



Shoe Test (Update Original Treatment Report for Primary Job)

| | | |
|------------------------------------|---|-----------------------|
| Depth Drilled out of Shoe: 0 FT | Target EMW: 0 LBS/GAL | Actual EMW: 0 LBS/GAL |
| Number of Times Tests Conducted: 0 | Mud Weight When Test was Conducted: 0 LBS/GAL | |

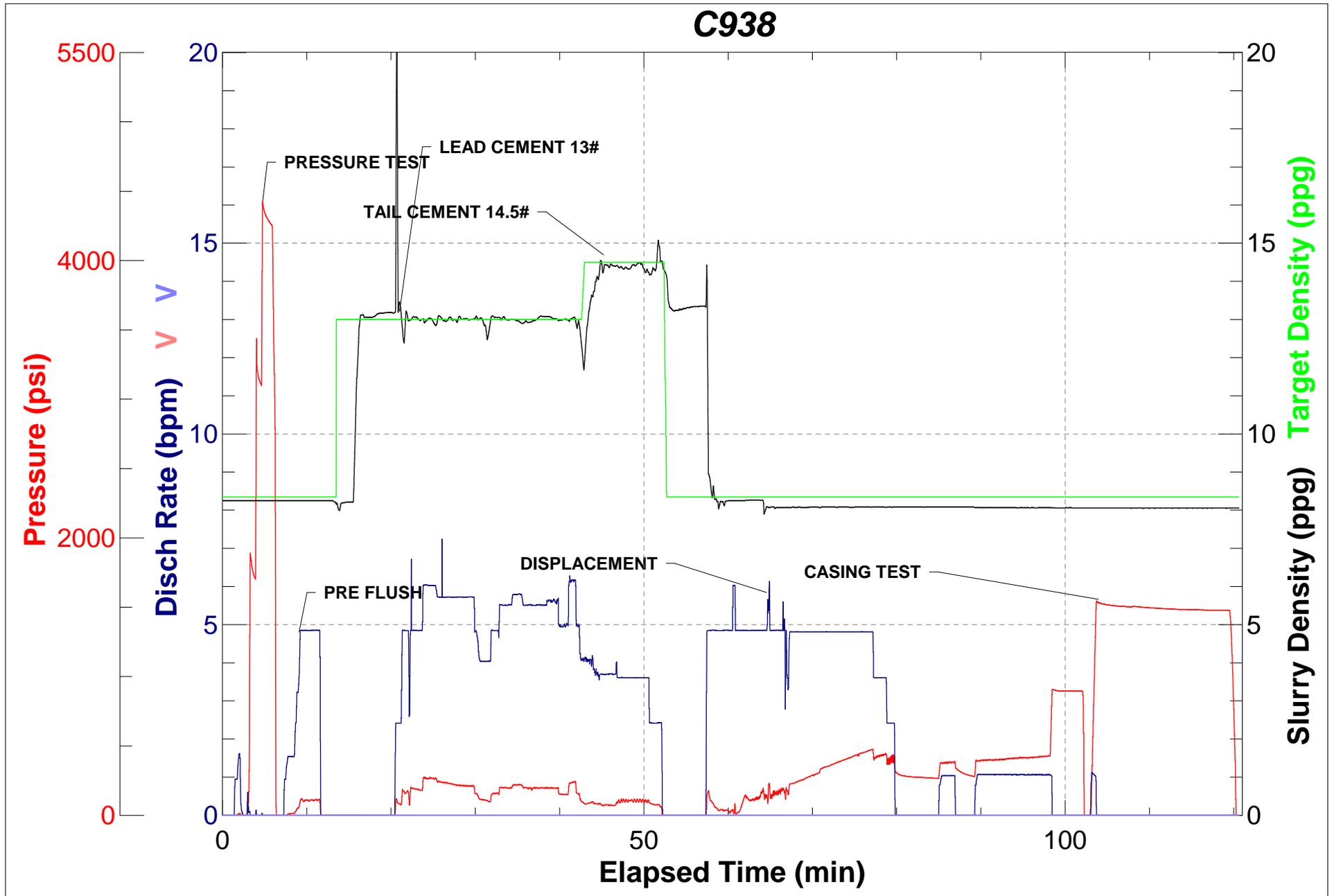
Problems Before Job (I.E. Running Casing, Circulating Well, ETC)
NONE

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)
NONE

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)
NONE

| PRESSURE/RATE DETAIL | | | | | | EXPLANATION | |
|----------------------|----------------|---------|-------------|----------------------|---------------|--|----------|
| TIME HR:MIN. | PRESSURE - PSI | | RATE BPM | Bbl. FLUID PUMPED | FLUID TYPE | SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/> | |
| | PIPE | ANNULUS | | | | TEST LINES | 4431 PSI |
| | | | | | | CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | |
| 08:35 | 0 | 0 | 0 | 0 | N/A | LEAVE DISTRICT | |
| 11:05 | 0 | 0 | 0 | 0 | N/A | ARRIVE ON LOCATION | |
| 11:09 | 0 | 0 | 0 | 0 | N/A | SPOT TRUCKS | |
| 11:25 | 0 | 0 | 0 | 0 | N/A | PRE RIG UP SAFETY MEETING & RIG UP | |
| 11:40 | 0 | 0 | 0 | 0 | N/A | SAFETY MEETING | |
| 12:04 | 13 | 0 | 1.5 | 1 | H2O | LOAD LINES | |
| 12:05 | 1885 | 0 | 0 | 0 | H2O | LOW PRESSURE TEST | |
| 12:07 | 4431 | 0 | 0 | 0 | H2O | HIGH PRESSURE TEST | |
| 12:10 | 111 | 0 | 4.8 | 15 | H2O | PRE FLUSH W/ DYE | |
| 12:17 | 234 | 0 | 5.7 | 123 | CMNT | LEAD SLURRY 13# | |
| 12:45 | 72 | 0 | 3.7 | 27 | CMNT | TAIL SLURRY 14.5# | |
| 12:55 | 0 | 0 | 0 | 0 | N/A | SHUT DOWN | |
| 12:59 | 0 | 0 | 0 | 0 | N/A | DROP PLUG | |
| 13:00 | 478 | 0 | 4.8 | 110 | H2O | DISPLACEMENT | |
| 13:41 | 904 | 0 | 0 | 0 | N/A | BUMP PLUG | |
| 13:44 | 0 | 0 | 0 | 0 | N/A | CHECK FLOATS | |
| 13:45 | 1550 | 0 | 1.1 | 0 | H2O | CASING TEST | |
| 14:03 | 0 | 0 | 0 | 0 | N/A | SHUT DOWN | |
| 14:04 | 0 | 0 | 0 | 0 | N/A | PRE RIG DOWN SAFETY MEETING AND RIG DOWN | |

| | | | | | | | |
|--|------------------------|--|---------------------------------|-------------------------|-----------------------|---|-------------------------------------|
| BUMPED PLUG | PSI TO BUMP PLUG | TEST FLOAT EQUIP. | BBL.CMT RETURNS/ REVERSED | TOTAL BBL. PUMPED | PSI LEFT ON CSG | SPOT TOP OUT CEMENT | Service Supervisor Signature: _____ |
| <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 900 | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 25 | 275 | 0 | Y <input checked="" type="checkbox"/> N | |





CEMENTING LABORATORY REPORT
Lab Report #C09-103-14

| | | | |
|------------------------|-----------------------|-------------------|-----------------------|
| COMPANY : | Carrizo Oil & Gas Inc | DATE: | September 25, 2014 |
| WELL NAME: | O'Hare 2-29-11-57 | LOCATION: | Weld County, Colorado |
| DISTRICT: | Brighton | TYPE JOB: | Surface |
| API # | 05-123-40082-0000 | TOC(md): | |
| DEPTH MD(ft): | 1,440 ft | BHST(°F): | 109 °F |
| CASING SIZE("): | 9 5/8 in | BHCT(°F): | 85 °F |
| TUBING SIZE("): | | BHSqT(°F): | 94 °F |
| HOLE SIZE("): | 12 1/4 in | TOL (°F): | Static Circ |

SLURRY DESIGN DATA

| | | |
|-----------|---|---|
| #1 | Lead Slurry: Premium Lite Cement + 6% Bentonite II + 3% CaCl ₂ + 3% NaCl ₂ + 0.04% Static Free + 0.25 pps Cello Flake + 0.5 gals/100 sack FP-6L | + |
| #2 | Tail Slurry: Type III Cement + 1.5% CaCl ₂ + 0.04 pps Static Free + 0.25 pps Cello Flake + 0.5 gals/100 sack FP-6L | + |
| #3 | | |

| SLURRY PROPERTIES | | #1 | #2 | #3 |
|-----------------------------------|------------|-----------|-----------|-----------|
| Density : ppg | | 13.00 | 14.50 | |
| Yield :cu.ft./sk. | | 1.81 | 1.41 | |
| Mixing Water: gal/sk. | | 9.46 | 6.82 | |
| Water Type: | | Fresh | Fresh | |
| Testing Temperature : | | 85 °F | 87 °F | |
| Thickening Time: hrs:mins. | | 5:01 | 2:21 | |
| Free Water: mls. | | | | |
| Fluid Loss:ml/30min | | | | |
| Compressive Strength: | | | | |
| | hrs. | | | |
| | hrs. | | | |
| Rheologies | RPM | | | |
| | 300 | | | |
| | 200 | | | |
| | 100 | | | |
| | 60 | | | |
| | 30 | | | |
| | 6 | | | |
| | 3 | | | |
| | 600 | | | |
| | PV | | | |
| | YP | | | |
| Gel Strength : #/100sq.ft. | 10 sec. | | | |
| | 10 min. | | | |

REMARKS :

COMMENTS : The above data is supplied solely for informational purposes and BHI makes no guarantees or warranties, either express or implied, with respect to the accuracy or use of this data. All product warranties and guarantees shall be governed by the standard contract terms at the time of sale.



FIELD RECEIPT NO. 10011102435

| | | | | | | | | | | |
|---|--------------------------------------|--|---------------------|---|---|---------------------------------------|---|--------------------------|--|-------------------|
| CUSTOMER CARRIZO OIL & GAS INC XML | | | | | CREDIT APPROVAL NO. | PURCHASE ORDER NO. | CUSTOMER NUMBER 0040003338 - 0040139823-1 | INVOICE NUMBER | | |
| MAIL INVOICE TO | | STREET OR BOX NUMBER 500 DALLAS STREET, SUITE 2499 | | | CITY Houston | | STATE Texas | ZIP CODE 77063 | | |
| DATE WORK COMPLETED | MO. 09 | DAY 29 | YEAR 2014 | BHI REPRESENTATIVE Zachary Fagg | | WELL API NO: 05123400820000 | WELL TYPE : New Well | | | |
| DISTRICT PP, BRIGHTON | | | | | JOB DEPTH (ft) 1,474 | | WELL CLASS : Oil | | | |
| WELL NAME AND NUMBER O'HARE 2-29-11-57 | | | | | TD WELL DEPTH (ft) 1,493 | | GAS USED ON JOB : No Gas | | | |
| WELL LOCATION : | | LEGAL DESCRIPTION 29-11N-57W | | | COUNTY/PARISH Weld | STATE Colorado | JOB TYPE CODE : Surface | | | |
| PRODUCT CODE | DESCRIPTION | | | | UNIT OF MEASURE | QUANTITY | LIST PRICE UNIT | GROSS AMOUNT | % DISC. | NET AMOUNT |
| 100112 | Calcium Chloride | | | | lbs | 1250 | 1.290 | 1,612.50 | 70% | 483.75 |
| 100295 | Cello Flake | | | | lbs | 137 | 5.100 | 698.70 | 70% | 209.61 |
| 100404 | Sodium Chloride | | | | lbs | 947 | 0.520 | 492.44 | 70% | 147.73 |
| 121116 | Cement Plug, Rubber, Top 9-5/8 in | | | | ea | 1 | 403.200 | 403.20 | 70% | 120.96 |
| 398224 | Premium Lite Cement | | | | sacks | 400 | 27.650 | 11,060.00 | 70% | 3,318.00 |
| 488019 | FP-6L | | | | gals | 3 | 104.250 | 312.75 | 70% | 93.83 |
| 488449 | Bentonite II | | | | lbs | 2088 | 0.440 | 918.72 | 70% | 275.62 |
| 499632 | Granulated Sugar | | | | lbs | 50 | 3.840 | 192.00 | 70% | 57.60 |
| 499680 | Static Free | | | | lbs | 20 | 40.700 | 814.00 | 70% | 244.20 |
| 499703 | Type III Cement | | | | sacks | 146 | 31.700 | 4,628.20 | 70% | 1,388.46 |
| | SUB-TOTAL FOR Product Material | | | | | | | 21,132.51 | 70.00% | 6,339.76 |
| A152 | Personnel Per Diem Chrg - Cement Svc | | | | ea | 1 | 210.000 | 210.00 | 0% | 210.00 |
| M100 | Bulk Materials Blending Charge | | | | cu ft | 732 | 5.450 | 3,989.40 | 70% | 1,196.82 |
| R798 | Automatic Density System | | | | job | 1 | 1,990.000 | 1,990.00 | 70% | 597.00 |
| | SUB-TOTAL FOR Service Charges | | | | | | | 6,189.40 | 67.62% | 2,003.82 |
| ARRIVE LOCATION : | MO. 09 | DAY 29 | YEAR 2014 | TIME 11:05 | SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER. | | | | SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER. | |
| CUSTOMER REP. BOB MCNEECE | | | | | CUSTOMER AUTHORIZED AGENT X | | | | BHI APPROVED | |
| SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS | | | | | | | | | CUSTOMER AUTHORIZED AGENT X | |



FIELD RECEIPT NO. 10011102435

| CUSTOMER CARRIZO OIL & GAS INC XML | | | | | CREDIT APPROVAL NO. | PURCHASE ORDER NO. | CUSTOMER NUMBER 0040003338 - 0040139823-1 | INVOICE NUMBER | | | |
|---|--|----------------------------------|---------------------|---|---|---------------------------|---|--------------------------|--|------------|--|
| MAIL INVOICE TO 500 DALLAS STREET, SUITE 2499 | | STREET OR BOX NUMBER | | | CITY Houston | | STATE Texas | ZIP CODE 77063 | | | |
| DATE WORK COMPLETED 09 29 2014 | MO. 09 | DAY 29 | YEAR 2014 | BHI REPRESENTATIVE Zachary Fagg | WELL API NO: 05123400820000 | | WELL TYPE : New Well | | | | |
| DISTRICT PP, BRIGHTON | | | | | JOB DEPTH (ft) 1,474 | | WELL CLASS : Oil | | | | |
| WELL NAME AND NUMBER O'HARE 2-29-11-57 | | | | | TD WELL DEPTH (ft) 1,493 | | GAS USED ON JOB : No Gas | | | | |
| WELL LOCATION : 29-11N-57W | | LEGAL DESCRIPTION Weld | | | COUNTY/PARISH | STATE Colorado | JOB TYPE CODE : Surface | | | | |
| PRODUCT CODE | DESCRIPTION | | | | UNIT OF MEASURE | QUANTITY | LIST PRICE UNIT | GROSS AMOUNT | % DISC. | NET AMOUNT | |
| F055A | Cement Pumping, 1001 - 2000 ft | | | | 4hrs | 1 | 4,875.000 | 4,875.00 | 70% | 1,462.50 | |
| F090 | Fuel per pump charge - cement | | | | pump/hr | 4 | 70.250 | 281.00 | 0% | 281.00 | |
| J050 | Cement Head | | | | job | 1 | 830.000 | 830.00 | 70% | 249.00 | |
| J225 | Data Acquisition, Cement, Standard | | | | job | 1 | 2,130.000 | 2,130.00 | 70% | 639.00 | |
| J390 | Mileage, Heavy Vehicle | | | | miles | 232 | 11.850 | 2,749.20 | 70% | 824.76 | |
| J391 | Mileage, Auto, Pick-Up or Treating Van | | | | miles | 232 | 6.700 | 1,554.40 | 70% | 466.32 | |
| | SUB-TOTAL FOR Equipment | | | | | | | 12,419.60 | 68.42% | 3,922.58 | |
| J401 | Bulk Delivery, Dry Products | | | | ton-mi | 3933 | 3.940 | 15,496.02 | 70% | 4,648.81 | |
| J404 | Bulk Delivery, Return of Unused Mtls | | | | ton-mi | 593 | 3.940 | 2,336.42 | 70% | 700.93 | |
| | SUB-TOTAL FOR Freight/Delivery Charges | | | | | | | 17,832.44 | 70.00% | 5,349.74 | |
| | FIELD ESTIMATE | | | | | | | 57,573.95 | 69.40% | 17,615.90 | |
| ARRIVE LOCATION : | MO. 09 | DAY 29 | YEAR 2014 | TIME 11:05 | SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER. | | | | SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER. | | |
| CUSTOMER REP. BOB MCNEECE | | | | | CUSTOMER AUTHORIZED AGENT CUSTOMER AUTHORIZED AGENT | | | | CUSTOMER AUTHORIZED AGENT X | | |
| SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS | | | | | | | | | BHI APPROVED X | | |